

ABSTRACTIMAGE PROCESSING APPARATUS

5 In an image processing apparatus 2, images of a subject  
object 210 and data defining the positions and  
orientations at which the images were recorded are  
processed to generate a three-dimensional computer model  
of the subject object 210. As part of the processing,  
10 image data relating to the subject object 210 is  
segmented from other image data in each input image to  
define the silhouette of the subject object in each  
image, and the silhouettes are processed to generate the  
three-dimensional computer model. To improve the  
15 accuracy of the segmentation processing, and therefore  
the accuracy of each silhouette and the three-dimensional  
computer model, processing apparatus 2 defines a volume  
of three-dimensional space enclosing the subject object,  
projects the volume into at least one of the input  
20 images, selects pixels representative of the background  
by using the projection of the volume to prevent the  
selection of pixels representing the subject object, and  
uses the pixels to establish parameters to be used in the  
segmentation processing.

(Figure 4)